$^{\circ}\nu_{i}$

PA._NT COOPERATION TREAT

	From th	e INTERNATIONAL B	UREAU
PCT	То:	•	
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 18 January 2002 (18.01.02)	Astra Globa P.O. I Mere Maco	Brian, Steele Zeneca al Intellectual Property Box 272 side, Alderley Park lesfield, Cheshire SK AUME-UNI	
Applicant's or agent's file reference PHM.70569/WO		IMPORTANT NOT	IFICATION
International application No. PCT/GB00/02566		nal filing date (day/month/y uly 2000 (04.07.00)	'ear)
The following indications appeared on record concerning: The applicant the inventor	the agen	the comm	on representative
Name and Address ASTRAZENECA SA Le Galien 1, rue des Chauffours Boite postale 127 F-95022 Cergy Cedex France		State of Nationality GB Telephone No. Facsimile No. Teleprinter No.	State of Residence GB
The International Bureau hereby notifies the applicant that the X the person the name. the add	1	change has been recorded the nationality	concerning: the residence
Name and Address DELETED.		State of Nationality	State of Residence
		Telephone No.	
		Facsimile No.	
		Teleprinter No.	
3. Further observations, if necessary:			
4. A copy of this notification has been sent to:			
X the receiving Office		the designated Office X the elected Offices co	
the International Searching Authority the International Preliminary Examining Authority		other:	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized	Ki-Nam HA	
Facsimile No.: (41-22) 740.14.35	Telephone	No.: (41-22) 338.83.38	

Form PCT/IB/306 (March 1994)

004602369

PA ... NT COOPERATION TREAT.

	From the INTERNATIONAL BUREAU				
PCT	То:				
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 28 November 2001 (28.11.01)	TAIT, Brian, Steele AstraZeneca Global Intellectual Property P.O. Box 272 Mereside, Alderley Park Macclesfield, Cheshire SK10 4GR ROYAUME-UNI				
Applicant's or agent's file reference PHM.70569/WO	IMPORTANT NOTIFICATION				
International application No. PCT/GB00/02566	International filing date (day/month/year) 04 July 2000 (04.07.00)				
The following indications appeared on record concerning: The applicant the inventor	the agent the common representative				
Name and Address ASTRAZENECA SA Le Galien 1, rue des Chauffours Boite postale 127	State of Nationality State of Residence GB GB Telephone No.				
F-95022 Cergy Cedex France	Facsimile No. Teleprinter No.				
The International Bureau hereby notifies the applicant that the name the additional the name the additional than the name the additional than the name that the name the additional than the name that the name					
X the person the name the add Name and Address	State of Nationality State of Residence				
DELETED	Telephone No.				
	Facsimile No.				
	Teleprinter No.				
3. Further observations, if necessary: Sole applicant for all designated States except L	JS is now: ASTRAZENECA UK LIMITED.				
4. A copy of this notification has been sent to:					
X the receiving Office the International Searching Authority	the designated Offices concerned X the elected Offices concerned				
the International Preliminary Examining Authority	other:				
	Authorized officer				
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	R. Raissi				
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38				

PA. INT COOPERATION TREAT

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:		

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24

Arlington, VA 22202 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)

14 March 2001 (14.03.01)

ETATS-UNIS D'AMERIQUE
in its capacity as elected Office

International application No. PCT/GB00/02566

International filing date (day/month/year) 04 July 2000 (04.07.00) Priority date (day/month/year)
07 July 1999 (07.07.99)

PHM.70569/WO

Applicant's or agent's file reference

Applicant

CRAWLEY, Graham, Charles et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	23 January 2001 (23.01.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Juan Cruz

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

PCT

REQUEST

For receiving Office use only	
International Application No.	
International Filing Date	
International Filing Date 201019745	

The undersigned requests that the present international application be processed according to the Patent Cooperation Treatv. Name of receiving Office and "PCT International Application" Applicant's or agent's file reference (if desired) (12 characters maximum) PHM.70569/WO Box No. 1 TITLE OF INVENTION **QUINAZOLINE DERIVATIVES** Box No. II APPLICANT Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State This person is also inventor. of residence is indicated below.) Telephone No. ASTRAZENECA UK LIMITED (01625) 516485 15 Stanhope Gate Facsimile No. London W1Y 6LN (01625) 583358 GB Teleprinter No. 669095/669388 State (that is, country) of nationality: State (that is, country) of residence: This person is applicant all designated all designated States except the United States of America the United States of America only the States indicated in for the purposes of: States the Supplemental Box Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below. This person is: of residence is indicated below.) applicant only ZENECA PHARMA S.A. 'Le Galien' applicant and inventor 1 rue des Chauffours, BP127 95022 Cergy Cedex inventor only (If this check-box is marked, do not fill in below.) State (that is, country) of nationality: State (that is, country) of residence: GB This person is applicant all designated States all designated States except the United States of America the States indicated in the Supplemental Box the United States for the purposes of: of America only Further applicants and/or (further) inventors are indicated on a continuation sheet. Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: agent common representative Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Telephone No. TAIT, Brian Steele et al (01625) 514151 **ASTRAZENECA** Global Intellectual Property Facsimile No. P O Box 272 (01625) 583358 Mereside, Alderley Park Macclesfield, Cheshire, SK10 4GR Teleprinter No. **GB** 669095/669388 Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Sheet No. 2

·		Sheet No	D				
Continuation of Box No	o. NI FURTHER	R APPLICANT(S)	AND/OR (FUR	THER) [NVENTOR(S)	
If non	e of the following s	sub-boxes is used, t	his sheet shoul	ld not be i	ncluded in th	e request	-
Name and address: (Fan designation: The address address indicated in this of residence is indicated and the second control of the se	smust include postal of Box is the applicant's below.)	code and name of cou	intro The count	ru of the	X appli	on is: icant only cant and inventor ntor only (If this check-barked, do not fill in below.)	נו
State (that is, country) of n	ationality:		State (that is, o	country) of	residence:		
This person is applicant for the purposes of:	all designated States	all designated the United St	States except ates of America		United States America only	the States indicate the Supplemental	
Name and address: (Fami designation. The address address indicated in this B of residence is indicated b	must include postal co ox is the applicant's S elow.)	ode and name of com	nto The country	Toftha	This person	n is:	
MCKERRECHER, Da Alderley Park Macclesfield	rren				X applic	ant and inventor	
Cheshire SK10 4TG GB					invent is mark	or only (If this check-box ted, do not fill in below.)	
State (that is, country) of na	ationality:		State (that is, co	ountry) of 1	residence:		 -
This person is applicant for the purposes of:	all designated States	all designated the United Stat	States except es of America		United States merica only	the States indicated the Supplemental E	
Name and address: (Famil designation. The address in address indicated in this Bo of residence is indicated be POYSER, Jeffrey Phili Alderley Park Macclesfield Cheshire SK10 4TG GB	nust include postal co is the applicant's Si low.)	de and name of coun	try The country	of the	application invent	is: ant only ant and inventor tor only (If this check-box ted, do not fill in below.)	
State (that is, country) of na GB	tionality:		State (that is, co GB	ountry) of to	esidence:		
This person is applicant for the purposes of:	all designated States	all designated State			Juited States merica only	the States indicated the Supplemental E	
Name and address: (Family designation. The address in address in dicated in this Bo. of residence is indicated between the second of the secon	ust include postal cooxis the applicant's St low.)	de and name of count	ry. The country of	of the	X applica	is: Int only Int and inventor Int only (If this check-boxed, do not fill in below.)	
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This person is applicant for the purposes of:	all designated States	all designated S the United State	tates except s of America		Inited States nerica only	the States indicated the Supplemental B	
Further applicants an	d/or (further) invente	ors are indicated on a	another continue	ation sheet			

ن					
Continuation of Box N	o. III FURTHE	R APPLICANT(S)	AND/OR (FUR	THER) INVENT	OR(S)
If non	e of the following	sub-boxes is used,	this sheet shoul	d not be included	in the request
					
Name and address: (Fan designation: The address address indicated in this of residence is indicated	Box is the applicant			y of the	s person is:
PLE, Patrick					applicant only
Z.I. La Pompelle BP-1050				X	applicant and inventor
51689 Reims Cedex	2				inventor only (If this check-b
					is marked, do not fill in below.
State (that is, country) of n	ationality:		State (that is, c	ountry) of residence	e:
			Fri		
This person is applicant for the purposes of:	all designate States		d States except tates of America	the United S of America	
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-y · · · · · · · · · · · · · · · · · · ·	eiow.y	Since (Billing, Country)	y of residence ly no		applicant only
AMBERT, Christine I	Marie Paul				•
3P 1050	•			[X] :	applicant and inventor
1689 Reims Cedex 2 R	**************************************			ii	nventor only (If this check-bo marked, do not fill in below.)
			٠.	·	
State (that is, country) of na BE	tionality:		State (that is, co	untry) of residence	*
This person is applicant or the purposes of:	all designated States	all designated the United State	States except tes of America	the United Sta	
designation. The address maddress indicated in this Bo address indicated in this Bo of residence is indicated bet		tale (that is, country)	oj residence if no S	a l	erson is: pplicant only pplicant and inventor
				is	nventor only (If this check-box marked, do not fill in below.)
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tate (that is, country) of nati	onanty:		State (that is, cou	ntry) of residence:	
his person is applicant or the purposes of:	all designated States	all designated State		the United Stat	
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residence is indicated belo	iw.)	(=== , = ; = ; = ; ; ; ; ; ; ; ; ; ; ; ;			plicant only
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				in	ventor only (If this check-box marked, do not fill in below.)
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ate (that is, country) of nation	onality:	S	State (that is, count	ry) of residence:	
is person is applicant the purposes of:	all designated States	all designated States		the United State	-
	<u> </u>	the United States		of America only	the Supplemental B
Further applicants and				on sheet.	
PCT/RO/101 (continuation	on sheet) (July 1998	3; reprint January 200	00)		See Notes to the request fo

Box Ño.V DESIGNATION OF STATES The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked): ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, Cl Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired.) specify on dotted line) National Patent (if other kind of protection or treatment desired, specify on dotted line): X AE United Arab Emirates I. LR Liberia X AL Albania LS Lesotho . . AM Armenia LT Lithuania AT Austria LU Luxembourg LV Latvia X AZ Azerbaijan BA Bosnia and Herzegovina MD Republic of Moldova **▼ BB** Barbados MG Madagascar MK The former Yugoslav Republic of Macedonia BR Brazil BY Belarus MN Mongolia ▼ CA Canada MW Malawi ... CH and LI Switzerland and Liechtenstein MX Mexico CN China NO Norway CR Costa Rica NZ New Zealand CU Cuba E PL Poland CZ Czech Republic ☑ PT Portugal **⊠**RO Romania Russian Federation M Dominica ☑ SD Sudan EE Estonia **≥** SE Sweden **ES** Spain **⊠** SG Singapore 🗵 FI X SI Slovenia ☑ GB United Kingdom **⋈** sk Slovakia GD Grenada **図** TJ ▼ TM Turkmenistan ☑ GM Gambia ▼ TR Turkey HR Croatia X TT Trinidad and Tobago HU Hungary X TZ United Republic of Tanzania **ID** Indonesia **X** UA Ukraine 🗷 IL Israel **™** UG Uganda X IN 🗷 us 🗷 IS 🗷 JP Japan ■ UZ Uzbekistan ☑ VN Viet Nam ☑ YU KP Democratic People's Republic of Korea Z ZA South Africa KR Republic of Korea Check-boxes reserved for designating States which have become party to the PCT after issuance of this sheet: DZ Algeria LC Saint Lucia LK Sri Lanka 😿 AG Antigua

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Sheet No. 5

Box No. VI PRIORITY	CLAIM			Further pri	ority claims are indicated	d in the Supplemental Bo
Filing date of earlier application	~6.	Number	_ L ·		Where earlier applica	
(day/month/year)	016	earlier application	national a	pplication:	regional application:*	
item (1) 07 JULY 1999 (07/07/99)		99401692.1		iP	Togronia office	receiving Office
item (2) 04 MAY 2000		00401221.7	E	P		
(04/05/2000) item (3)		•				
: 						
The receiving Office is r of the earlier application purposes of the present is	us <i>i toniv</i>	u ine earner ann	dication was bl	ed with the	Office subject for all	
• Where the earlier application of Convention for the Protection of	. A. ADIDA	O annicamient de la	ف بالمالية			e country party to the Paris
Box No. VII INTERNATI	ONALS	EARCHING AL	THORITY			
Choice of International Sear (if two or more International Scompetent to carry out the interthe Authority chosen; the two-lette ISA / EPO	earching A	uthorities are se	equest to use rearch has been car arch (day/month/ye	ned out by or	equested from the Internati	to that search (if an earlie ional Searching Authority): Country (or regional Office)
	T: I ANI	CILL CE OF TH				
Box No. VIII CHECK LIS This international application				 		
the following number of shee	ts:	1. I fee calcu		s accompani	ed by the item(s) marke	d below:
request :5	•	1	signed power o	f attamen.	. •	
description (excluding sequence listing part) 147		J .			eference number, if any	
claims : 15			nt explaining lac		· •	•
abstract : 1		1			x No. VI as item(s): (1)	
drawings					n into (language):	
equence listing part	i					other biological material
of description :					e listing in computer re-	
Fotal number of sheets: 168		9. Other (sp.	ecify):			
Figure of the drawings which should accompany the abstract		La	nguage of filin ernational appli	g of the cation: EN	GLISH	
Box No. IX SIGNATURE	OF APPI	JCANT OR AG			· · · · · · · · · · · · · · · · · · ·	
lext to each signature, indicate the na	me of the pe	rson signing and the	capacity in which th	e person signs (if such capacity is not obvious	from reading the request).
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Brian S.	lais	τ.				•
TAIT, Brian Steele et al.					. •	
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Data of a data six as		For re	ceiving Office t	se only —		
Date of actual receipt of the international application:	· · ·				e de la companya de	2. Drawings:
Corrected date of actual rece timely received papers or dra the purported international a	Wings con	mnleting				received:
Date of timely receipt of the corrections under PCT Artic	e 11/21	•	٠			not received:
International Searching Auth (if two or more are competen	ority i): ISA	./	6.	ransmittal o	f search copy delayed ce is paid.	
ate of receipt of the record cor	у	For Intern	ational Bureau	use only		

Interfit 5nat Application No PCT/GB 00/02566

A CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D239/94 A61K C07D495/04 C07D403/12 C07D401/12 A61K31/505 A61P37/06 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, EPO-Internal, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1,4,13, WO 98 50047 A (UNIV PENNSYLVANIA ;LIANG X BRUCE T (US); JACOBSON KENNETH A (US)) 12 November 1998 (1998-11-12) see compound MRS1364 page 28 15.16 WO 98 50370 A (KUTSCHER BERNHARD X ; WEINBERGER HEINZ (DE); SUGEN INC (US); TANG PEN) 12 November 1998 (1998-11-12) cited in the application see compounds A32-A34 page 53, line 5 -page 55, line 9 15,16 WO 98 38984 A (SUGEN INC ; SHENOY NARMADA X (US); WAGNER GREGORY S (US)) 11 September 1998 (1998-09-11) page 28, line 22 -page 29, line 8 page 76, line 3-24 Patent tamity members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents : "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "E" earlier document but published on or after the international *L* document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as 'specified') document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-*O* document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means *P* document published prior to the International filing date but later than the priority date claimed *8" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 2 6. 10.00 6 October 2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040. Tx. 31 651 epo nl. Fax: (+31-70) 340-3016 **Authorized officer**

Schmid, J-C

toters sonal Application No PCT/GB 00/02566

C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 99 09024 A (JOHNS AMANDA ; PORTER	1,2, 14-16
	RODERICK ALAN (GB); SMITHKLINE BEECHAM PLC (G) 25 February 1999 (1999-02-25)	14-10
	cited in the application page 1, line 34 -page 2, line 31	
	see formula (1) page 3, line 26 -page 4, line 28	
A	WO 97 03069 A (GLAXO GROUP LTD ;COCKERILL	1-16
	GEORGE STUART (GB); CARTER MALCOLM CLIV) 30 January 1997 (1997-01-30)	
·	cited in the application page 1, line 1 -page 2, line 3	
	see formula(1) page 7, line 1 -page 9, line 10	
A	MYERS M R ET AL: "The preparation and SAR	1-16
A	of 4-(anilino), 4-(phenoxy), and 4-(thiophenoxy)-quinazolines: inhibitors	
	of p56and EGF-R tyrosine kinase activity"	
	BIOORGANIC & MEDICINAL CHEMISTRY LETTERS,GB,OXFORD,	
.*	vol. 7, no. 4, 18 February 1997 (1997-02-18), pages	
	417-420, XP004136037 ISSN: 0960-894X	
	the whole document	1-16
Α	GIBSON K H ET AL: "Epidermal growth factor receptor tyrosine kinase:	1-10
	structure-activity relationships and antitumour activity of novel quinazolines*	
• .	BIOORGANIC & MEDICINAL CHEMISTRY LETTERS,GB,OXFORD,	. ,
	vol. 7, no. 21, 4 November 1997 (1997-11-04), pages	
••	2723-2728, XP004136520 ISSN: 0960-894X	
	cited in the application see compound 18	
A	HONG C I ET AL: "SYNTHESIS AND BIOLOGICAL ACTIVITIES OF SOME N4-SUBSTITUTED	1-16
	4-AMINOPYRAZOLO'3,4d!PYRIMIDINES" JOURNAL OF MEDICINAL CHEMISTRY,AMERICAN CHEMICAL SOCIETY. WASHINGTON,US,	
	vol. 19, no. 4, 1976, pages 555-558, XP000916640	
	ISSN: 0022-2623 cited in the application	
	see compounds 20,22-26	
. •	,	

Interfi bonal Application No PCT/GB 00/02566

	n) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Ρ, χ	VAN MUIJLWIJK-KOEZEN ET AL: "Isoquinoline and Quinazoline Urea Analogues as Antagonists for the Human Adenosine A3 Receptor" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 43, no. 5, 1 June 2000 (2000-06-01), pages 2227-2238, XP002147879	1,2, 14-16		
	ISSN: 0022-2623' see compound 5a			
	,			
		·		

Intel Itional application No. PCT/GB 00/02566

Box I	Observations where certain claims were found unsearchable (Continuation of Item 1 of Itrat sheet)	
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
	Although claim 16 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.	ne
2. X	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
l l	see FURTHER INFORMATION sheet PCT/ISA/210	
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Fiule 6.4(a).	
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:	
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
•		
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
•		
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark d	on Protest The additional search fees were accompanied by the applicant's protest.	
	No protest accompanied the payment of additional search fees.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 1.2

Present claim 1 relates to an extremely large number of possible compounds. In fact, the claims contain so many options that a lack of clarity within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear, namely for those quinazoline derivatives of claim 1 for which Q1 is a group of formula 1a, 1b, 1c or Id.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

Information on patent family members

Intere pnat Application No PCT/GB 00/02566

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9850047	A	12-11-1998	AU	7367798 A	27-11-1998
			EP	0991414 A	12-04-2000
WO 9850370	Α	12-11-1998	AU	7282998 A	27-11-1998
			ΕP	0981519 A	01-03-2000
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reterence PHM.70569/WO FOR FURTHER			See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
			e (day/month/year)	Priority date (day/month/year)	
PCT/GB00/02566 04/07/2000			, (objo.m.)	07/07/1999	
Internation C07D23	al Patent Classification (IPC) o 9/94	r national classification and	PC		
Applicant					
Applicant ASTRAZ	ENECA UK LIMITED et	al.			
	nternational preliminary ex s transmitted to the applica			nternational Preliminary Exam	mining Authority
2. This I	REPORT consists of a total	of 9 sheets, including the	nis cover sheet.	* •	
b (:		basis for this report and/on 607 of the Administrative	or sheets containing	ion, claims and/or drawings rectifications made before the PCT).	
				•	
•				·	
3. This r	eport contains indications a	elating to the following ite	ems:		
II	☐ Priority	:,			
. 10	Non-establishment of the stable of	of opinion with regard to r	novelty, inventive ste	p and industrial applicability	
IV	☐ Lack of unity of inve	ntion	·		
V		t under Article 35(2) with ations suporting such sta		ventive step or industrial app	olicability;
VI	□ Certain documents	· · · · · ·			
VII	☐ Certain defects in th	e international application	1		
VIII -	☐ Certain observations	on the international app	lication		ne c
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Date of sub	mission of the demand		Date of completion of	of this report	
23/01/20	01	· ·	11.10.2001		
	nailing address of the internation	onal	Authorized officer		SHOOT MELL
preliminary	examining authority:		•		(e
European Patent Office D-80298 Munich			Schmid, J-C		
	Tel. +49 89 2399 - 0 Tx: 523 Fax: +49 89 2399 - 4465	656 epmu d	Telephone No. +49 f	89 2399 8347	The Park Back

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02566

I.	Basis of the report						
1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:						
	1-147	as originally filed					
	Claims, No.:						
	1 (parl),2,3,6-14, 15 (parl)	as originally filed					
	1 (part),4,5,15 (part), 16	as received on	13/06/2001 with letter of	07/06/2001			
				en e			
		•					
2.			narked above were available or furnis was filed, unless othérwise indicated				
. •	These elements were	available or furnished to t	his Authority in the following languag	e: , which is:			

55.2 and/or 55.3).
With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in written form.
filed together with the international application in computer readable form.
furnished subsequently to this Authority in written form.
furnished subsequently to this Authority in computer readable form.
The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).

the language of a translation furnished for the purposes of international preliminary examination (under Rule

☐ the language of publication of the international application (under Rule 48.3(b)).

□ the description, pages:□ the claims, Nos.:□ the drawings, sheets:

4. The amendments have resulted in the cancellation of:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02566

5. This report has been established as if (some of) the amendments had not been made, since the considered to go beyond the disclosure as filed (Rule 70.2(c)):						not been made, since they have been			
		(Any replacement she report.)	eet conta	ining suci	h amendmen	ts must be referred	to under item 1 and annexed to this		
							•		
6.	Add	ditional observations, if	necessa	ry:					
		•			-	••	d industrial applicability		
1.		The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:							
		the entire internationa	l applica	tion.		. •	•		
	rcz.	oloima Naa dinadi		•••					
	×	claims Nos. 1(part).							
	:								
be	caus	se:							
•		the said international	applicatio	in, or the	said claims N	los relate to the fo	ollowing subject matter which does		
	٠,	not require an internat							
		*							
the description, claims or drawings (indicate particular elements below) or said claims No that no meaningful opinion could be formed (specify):						or said claims Nos. are so unclear			
		ALL STATES OF THE STATES				ing in Commonwealth of the control of the c			
		the claims, or said cla could be formed.	ims _. Nos.	are so ir	nadequately s	supported by the de	escription that no meaningful opinion		
		codia de formea.		•					
	×	no international search	h report l	nas been	established f	or the said claims I	Nos. 1(part).		
2.	and	•	•	•			e to the failure of the nucleotide in Annex C of the Administrative		
		·	. "	•					
		the written form has no	ot been f	urnished	or does not c	omply with the star	ndard.		
	the computer readable form has not been furnished or does not comply with the standard.								
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v.		isoned statement und tions and explanation			-	- · · · · · · · · · · · · · · · · · · ·	e step or industrial applicability;		
1.		ement	• •			•	3. v		
				•					
	Nov	relty (N)		Claims			•		
		•	No:		1,2,13-16				
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02566

No:

Claims 1-5, 13-16

Industrial applicability (IA)

Yes:

Claims 1-15

No: Claims

2. Citations and explanations see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9).

see separate sheet

SECTION III

Claim 16 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

SECTION V

Reference is made to the following documents:

- D1: WO 98 50047 A (UNIV PENNSYLVANIA ;LIANG BRUCE T (US); JACOBSON KENNETH A (US)) 12 November 1998 (1998-11-12)
- D2: WO 98 50370 A (KUTSCHER BERNHARD ; WEINBERGER HEINZ (DE); SUGEN INC (US); TANG PEN) 12 November 1998 (1998-11-12) cited in the application
- D3: WO 98 38984 A (SUGEN INC ;SHENOY NARMADA (US); WAGNER GREGORY S (US)) 11 September 1998 (1998-09-11)
- D4: WO 99 09024 A (JOHNS AMANDA ; PORTER RODERICK ALAN (GB); SMITHKLINE BEECHAM PLC (G) 25 February 1999 (1999-02-25) cited in the application
- D5: WO 97 03069 A (GLAXO GROUP LTD ;COCKERILL GEORGE STUART (GB); CARTER MALCOLM CLIV) 30 January 1997 (1997-01-30) cited in the application
- D6: MYERS M R ET AL: 'The preparation and SAR of 4-(anilino), 4-(phenoxy), and 4-(thiophenoxy)-quinazolines: inhibitors of p56and EGF-R tyrosine kinase activity' BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, GB, OXFORD, vol. 7, no. 4, 18 February 1997 (1997-02-18), pages 417-420, XP004136037 ISSN: 0960-894X
- D7: GIBSON K H ET AL: 'Epidermal growth factor receptor tyrosine kinase: structure-activity relationships and antitumour activity of novel quinazolines' BIOORGANIC & MEDICINAL CHEMISTRY LETTERS,GB,OXFORD, vol. 7, no. 21, 4 November 1997 (1997-11-04), pages 2723-2728, XP004136520 ISSN: 0960-894X cited in the application
- D8: HONG C I ET AL: 'SYNTHESIS AND BIOLOGICAL ACTIVITIES OF SOME N4-SUBSTITUTED 4-AMINOPYRAZOLO[3,4d]PYRIMIDINES' JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 19, no. 4, 1976, pages 555-558, XP000916640 ISSN: 0022-2623 cited in the application

- D9: VAN MUIJLWIJK-KOEZEN ET AL: 'Isoquinoline and Quinazoline Urea Analogues as Antagonists for the Human Adenosine A3 Receptor' JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 43, no. 5, 1 June 2000 (2000-06-01), pages 2227- 2238, XP002147879 ISSN: 0022-2623
- 1). D2 and D3 disclose three compounds that have been disclaimed in claims 1 to 14. However, the compounds have been disclosed in D2 and D3 for some of the claimed uses (autoimmune disease, psoriasis, arthritis... -see D2, page 33, line 13; D3, page 29, line 9). The fact that these prior art compounds have been disclosed to act against those diseases by another mechanism of action cannot restore novelty.

D2 and D3 are therefore novelty-destroying for claims 15 and 16.

The compounds of present claims 1 and 2 generically overlap with the compounds of formula (I) of D4.

The overlap concerns the compounds of D4 wherein X and Y represent N. This overlap is considered to be novelty-destroying for present claim 1 since a selection from known subject-matter to be novel must fulfil the requirement that the selection portion is small and that a technical rule of selection has been applied, so that a technical teaching results which is different from that of the state of the art.

In the Examer's judgment a true selection from a broader technical disclosure to be novel must add a new element to the state of the art. The mere selection of one from three alternatives disclosed in a document belonging to the state of the art is no more than a repetition of what already belongs to the state of the art and cannot, therefore, be novel.

Either the whole overlap has to be removed by the mean of a proviso or the novelty should be restored by the mean of positive features which provide a technical rule of selection.

The subject-matter of claims 6 to 9 is regarded as a novel selection over the overlap with the compounds generically disclosed in D4 on account of the combination of selection of the nucleus (Y = N) with the substitution in specific positions.

Accordingly, the subject-matter of claim 1, 2 and 14 to 16 lacks novelty over D2-D4 (Article 33(2) PCT).

Compound MRS 1364 disclosed on page 28 of D1 has been excluded from the claimed scope by means of disclaimer. The claimed-matter is therefore novel over D1.

D5 and D6 disclose no urea derivatives (see the meaning of Yand X for the compounds disclosed respectively in D5 and D6).

D7 discloses the 1-(6,7-dimethoxyquinazolin-4-yl)-3-phenylurea (compound 18) which is excluded from the scope of product-claims 1 to 14. This compound is inactive as an EGF RTK inhibitor.

D8 disclosed some pyrazolo[3,4-d]pyrimidine derivative which are excluded from the scope of claim 1 to 14 by means of the provisos.

The compounds of D8 are disclosed as inhibitors of L1210 leukemia and human leukemic myeloblasts.

Accordingly, the subject-matter of claims 1 to 16 is novel over D1 and D5-D8 (Article 33(2) PCT.

2). The technical problem underlying the application is the provision of compounds which selectively inhibit enzyme p56^{lck} tyrosine kinase (see present description on page 3, lines 4-11).

Tyrosine kinase inhibitors have been disclosed in D5. However, these compounds are not selective inhibitors of p56^{lck} tyrosine kinase (see table 1 and 2 of D5). The closest prior art is therefore seen in D6 which discloses a selective p56^{lck} tyrosine kinase inhibitor (see compound 10).

It was not obvious in the light of D6, also taken in combination with the teaching of D5, that the replacement of the NH, O or S link of the quinazoline derivatives by an urea or thiourea would result in a selective p56^{lck} tyrosine kinase inhibitority activity of the resulting compounds.

An inventive step can therefore be acknowledged for those present compounds which effectively solve the above-mentioned technical problem, i.e for the present working examples 1-34 and the for the obvious equivalents thereof which can be represented by those of claims 6 to 12. The Applicant confirmed that about 250 compounds disclosed in examples 1-34 of the application have been have found to possess (valuable) p56lck tyrosine kinase inhibitority activity (IC50 comprised within the range of 0.0001-5 μ M). However, the selectivity of this inhibitory activity has still not been confirmed.

It must furthermore be noted that the breadth of the claims should be such that it represents a reasonable generalisation over the examples provided, and such that substantially all compounds falling within their scope actually are solutions to the technical problem underlying the invention (Article 33(3) EPC).

In this respect it must be noted that most of the compounds claimed in claims 1 to 5 cannot be regarded as obvious modifications or equivalents of the examples which have been given in the description if the specificity of the technical problem underlying the application is taken into account. Examination of the examples indicates that there are no working examples with compounds of formula V, one working example for those of formula III (example 18). It is pointed out that all the quinazoline and quinoline derivatives derivative of the working example are substituted in positions 6 and/or 7 by an optionally substituted alkoxy group. This very few variations of the substituents R¹ cannot support the broad generalisation made in claims 1 to 5.

Still with respect to the breath of the claims, it must be noted that expressions in the claims, such as "aryl", "heteroaryl", "heterocyclyc"..., are non-limitative in scope and therefore cannot be regarded as obvious modifications or equivalents of the examples which have been given in the description. Accordingly, the said expressions should be restricted in this respect to the particular meanings specified in the general part of description which can be regarded as obvious equivalents over the tested compounds.

It must further be noticed that the inventive step has been acknowledged for a structural difference which must be regarded rather as minor, when the generalisation made by the Applicant in the claim is considered.

The examiner is therefore not satisfied that substantially all the compounds of the formula (I) with the substituents as recited claims 1 to 5 are selective p56^{lck} tyrosine kinase inhibitors.

Consequently, at the present stage of the examining procedure, for claims 1 to 5, the technical problem underlying the application must be reformulated into the provision of further organic compounds.

As there is no technical prejudice for the preparation of the claimed compounds, no inventive step can be acknowledged for the whole subject-matter of claims 1 to

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/02566

5 due to the compounds encompassed by these claims which are likely not selective p56^{lck} tyrosine kinase inhibitority Accordingly, claims 1 to 5 do not meet the requirement of Article 33(3) PCT.

SECTION VI

D9 was published between the priority and filing dates of the present application. No check has been made as to whether the priority of the present application has been validly claimed.

- 152 -

halogeno, trifluoromethyl, cyano, nitro, hydroxy, amino, carboxy, carbamoyl, (1-6C)alkyl, (2-8C)alkenyl, (2-8C)alkynyl, (1-6C)alkoxy, (2-6C)alkenyloxy, (2-6C)alkynyloxy, (1-6C)alkylthio, (1-6C)alkylsulphinyl, (1-6C)alkylsulphonyl, (1-6C)alkylamino, di-[(1-6C)alkyl]amino, (1-6C)alkoxycarbonyl, N-(1-6C)alkylcarbamoyl, N-di-[(1-6C)alkyl]carbamoyl, (2-6C)alkanoyl, (2-6C)alkanoyloxy, (2-6C)alkanoylamino, N-(1-6C)alkylsulphamoyl, (1-6C)alkylsulphamoyl, N-di-[(1-6C)alkyl]sulphamoyl, (1-6C)alkanoylamino and N-(1-6C)alkyl-(1-6C)alkylsulphonylamino, or from a group of the formula:

 $-X^8 - R^{15}$

wherein X⁸ is a direct bond or is selected from O and N(R¹⁶), wherein R¹⁶ is hydrogen or (1-6C)alkyl, and R¹⁵ is halogeno-(1-6C)alkyl, hydroxy-(1-6C)alkyl, (1-6C)alkyl, (1-6C)alkyl, cyano-(1-6C)alkyl, amino-(1-6C)alkyl, (1-6C)alkylamino-(1-6C)alkyl or di-[(1-6C)alkyl]amino-(1-6C)alkyl,

and wherein any heterocyclyl group within a substituent on Q² optionally bears 1 or 2 oxo or thioxo substituents;

or a pharmaceutically-acceptable salt thereof; provided that the compounds:-

- 1-(6,7-dimethoxyquinazolin-4-yl)-3-phenylurea,
- 20 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-phenylurea,
 - 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-bromophenyl)urea,
 - 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-methoxyphenyl)urea.
 - 1-phenyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(2-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 25 1-(3-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(4-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(2-fluorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea.
 - 1-benzyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(3-phenylpropyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea and
- 30 1-{8-[3,4-dihydroxy-5(N-ethylcarbamoyl)tetrahydrofuran-2-yl]-7,8-dihydropteridin-4-yl}-3-(4-nitrophenyl)urea are excluded.

4. A pyrimidine derivative of the Formula IV

$$R^3$$
 Q^2 Z Z Z Z Z Z Z Z

Iν

wherein each of m, R¹, Y¹, R², R³, Z and Q² has any of the meanings defined in claim 1;

5 or a pharmaceutically-acceptable salt thereof; provided that the compounds:-

1-phenyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

1-(2-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

1-(3-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

10 1-(4-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

1-(2-fluorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea.

1-benzyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

1-(3-phenylpropyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea and

1-{8-[3,4-dihydroxy-5(N-ethylcarbamoyl)tetrahydrofuran-2-yl]-7,8-dihydropteridin-4-yl}-

15 3-(4-nitrophenyl)urea are excluded.

5. A quinazoline derivative of the Formula V

V

wherein each of m, R¹, Y², R², R³, Z and Q² has any of the meanings defined in claim 1; 20 or a pharmaceutically-acceptable salt thereof.

- 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-methoxyphenyl)urea.
- 1-phenyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 1-(2-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 5 1-(3-chlorophenyl)-3-(pyrazolo[3.4-d]pyrimidin-4-yl)urea.
 - 1-(4-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(2-fluorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-benzyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(3-phenylpropyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea and
- 10 1-{8-[3,4-dihydroxy-5(N-ethylcarbamoyl)tetrahydrofuran-2-yl]-7,8-dihydropteridin-4-yl}-
 - . 3-(4-nitrophenyl)urea,
 - in the manufacture of a medicament for use in the prevention or treatment of T cell mediated diseases or medical conditions in a warm-blooded animal such as man.
- 15 16. A method for the prevention or treatment of T cell mediated diseases or medical conditions in a warm-blooded animal in need of such treatment which comprises administering to said animal an effective amount of a quinazoline derivative of the Formula I, or a pharmaceutically-acceptable salt thereof, according to claim 1 but without the proviso that the group of formula Ic so formed is not a purine ring and including the compounds:-
- 20 1-(6,7-dimethoxyquinazolin-4-yl)-3-phenylurea,
 - 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-phenylurea,
 - 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-bromophenyl)urea,
 - 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-methoxyphenyl)urea.
 - 1-phenyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 25 1-(2-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea.
 - 1-(3-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(4-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(2-fluorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-benzyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 30 1-(3-phenylpropyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea and
 - 1-{8-[3,4-dihydroxy-5(N-ethylcarbamoyl)tetrahydrofuran-2-yl]-7,8-dihydropteridin-4-yl}-3-(4-nitrophenyl)urea.

halogeno, trifluoromethyl, cyano, nitro, hydroxy, amino, carboxy, carbamoyl, (1-6C)alkyl, (2-8C)alkenyl, (2-8C)alkynyl, (1-6C)alkoxy, (2-6C)alkenyloxy, (2-6C)alkynyloxy, (1-6C)alkylthio, (1-6C)alkylsulphinyl, (1-6C)alkylsulphonyl, (1-6C)alkylamino, di-[(1-6C)alkyl]amino, (1-6C)alkoxycarbonyl, N-(1-6C)alkylcarbamoyl,

5 N.N-di-[(1-6C)alkyl]carbamoyl, (2-6C)alkanoyl, (2-6C)alkanoyloxy, (2-6C)alkanoylamino, N-(1-6C)alkyl-(2-6C)alkanoylamino, N-(1-6C)alkylsulphamoyl, N.N-di-[(1-6C)alkyl]sulphamoyl, (1-6C)alkanesulphonylamino and N-(1-6C)alkyl-(1-6C)alkanesulphonylamino, or from a group of the formula:

-X8-R15

wherein X⁸ is a direct bond or is selected from O and N(R¹⁶), wherein R¹⁶ is hydrogen or (1-6C)alkyl, and R¹⁵ is halogeno-(1-6C)alkyl, hydroxy-(1-6C)alkyl, (1-6C)alkoxy-(1-6C)alkyl, cyano-(1-6C)alkyl, amino-(1-6C)alkyl, (1-6C)alkylamino-(1-6C)alkyl or di-[(1-6C)alkyl]amino-(1-6C)alkyl,

and wherein any heterocyclyl group within a substituent on Q² optionally bears 1 or 2

15 oxo or thioxo substituents;

or a pharmaceutically-acceptable salt thereof; provided that the compounds:-

- 1-(6,7-dimethoxyquinazolin-4-yl)-3-phenylurea,
- 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-phenylurea,
- 20 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-bromophenyl)urea,
 - 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-methoxyphenyl)urea.
 - 1-phenyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(2-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(3-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 25 1-(4-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(2-fluorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-benzyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea and
 - 1-(3-phenylpropyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea are excluded.

4. A pyrimidine derivative of the Formula IV

$$R^3$$
 Q^2 Q^2

wherein each of m, R^1 , Y^1 , R^2 , R^3 , Z and Q^2 has any of the meanings defined in claim 1; or a pharmaceutically-acceptable salt thereof;

5 provided that the compounds:-

15

1-phenyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

1-(2-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

1-(3-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

1-(4-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

10 1-(2-fluorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

1-benzyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea and

1-(3-phenylpropyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea are excluded.

5. A quinazoline derivative of the Formula V

wherein each of m, R^1 , Y^2 , R^2 , R^3 , Z and Q^2 has any of the meanings defined in claim 1; or a pharmaceutically-acceptable salt thereof.

- 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-methoxyphenyl)urea.
- 1-phenyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 1-(2-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 1-(3-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 5 1-(4-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(2-fluorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-benzyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea and
 - 1-(3-phenylpropyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,

in the manufacture of a medicament for use in the prevention or treatment of T cell mediated diseases or medical conditions in a warm-blooded animal such as man.

- 16. A method for the prevention or treatment of T cell mediated diseases or medical conditions in a warm-blooded animal in need of such treatment which comprises administering to said animal an effective amount of a quinazoline derivative of the Formula I,
 15 or a pharmaceutically-acceptable salt thereof, according-to-claim 1 but without the proviso that the group of formula-le-so formed is not a purine ring and including the compounds:-1-(6,7-dimethoxyquinazolin-4-yl)-3-phenylurea,
 - 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-phenylurea,
 - 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-bromophenyl)urea,
- 20 1-[5-(4-methoxyphenoxy)quinazolin-4-yl]-3-(3-methoxyphenyl)urea.
 - 1-phenyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(2-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(3-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-(4-chlorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
- 25 1-(2-fluorophenyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea,
 - 1-benzyl-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea and
 - 1-(3-phenylpropyl)-3-(pyrazolo[3,4-d]pyrimidin-4-yl)urea.